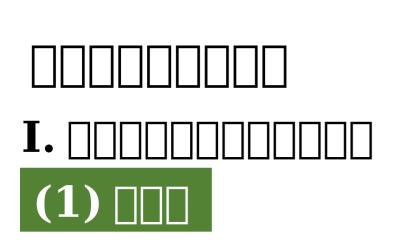




J.D.Van der Waals,1837-1923











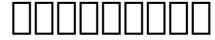
1. $CO_2 \square H_2SO_4 \square HF$, H_2O ,

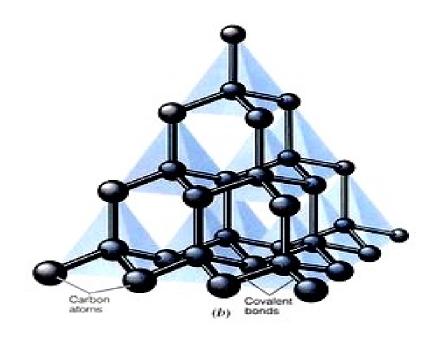
AlCl₃

 $\mathbf{H_2} \square \mathbf{P_4} \square \mathbf{S_8} \square \mathbf{C_{60}} \square$

3. **CONTRACT OF AR CONTRACT OF AR CONTRACT**









	Ar	CO	-	HI	HBr
	8.50 H	^{C1} 8.75	26.00	23.11	21.14
		745	298.7	366	431.8

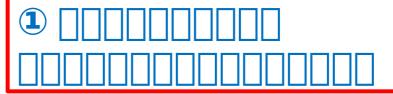


(4) [[[

(5)

	Ar	CO	HI	HBr	HCl
	40	28	128. 5	81.5	36.5
	8.50	8.75	26.0 Q	23.1 1	21.1 4





(6)

表 2-8 卤素单质的熔点和沸点

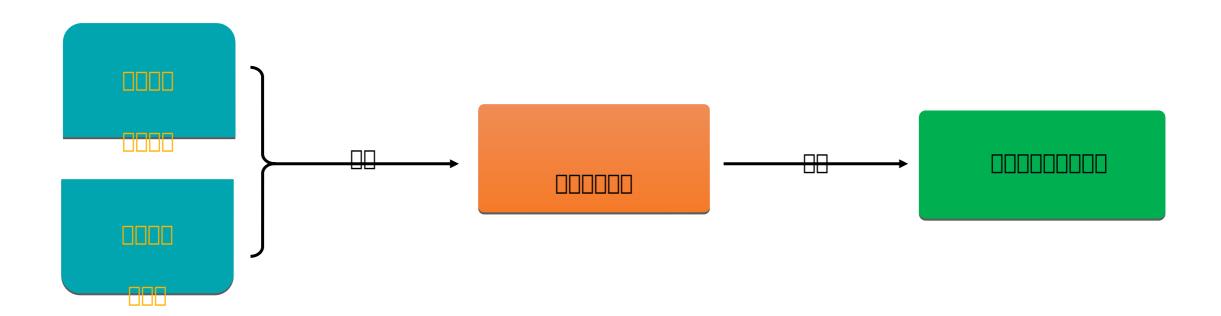
单质	熔点/℃	沸点/℃
F ₂	-219.6	-188.1
Cl ₂	-101	-34.6
Br ₂	-7.2	58.78
I_2	113.5	184.4

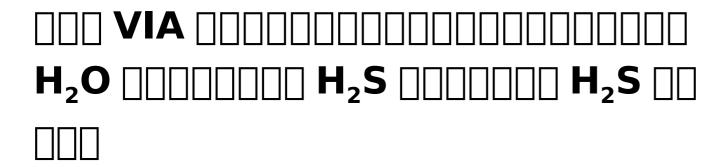


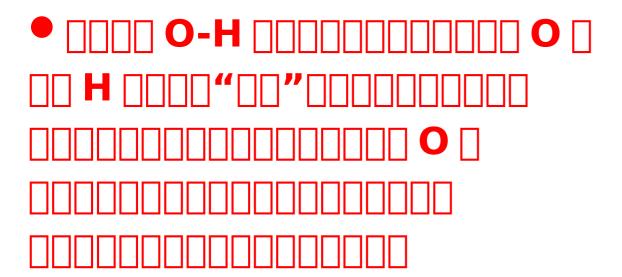


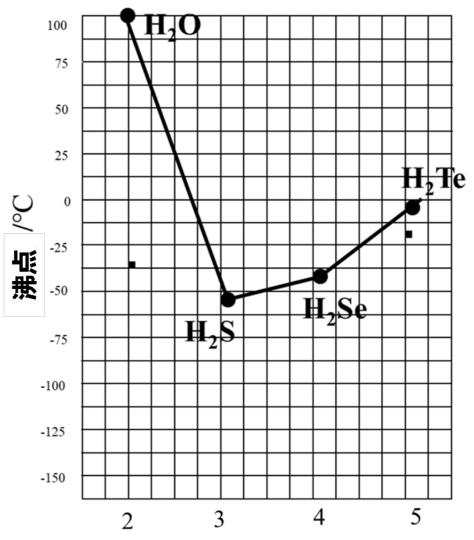


N_2	CO
28	28
-209.86°C	-205.1°C
-196°C	-191.5°C

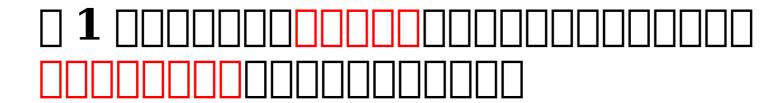








II. [

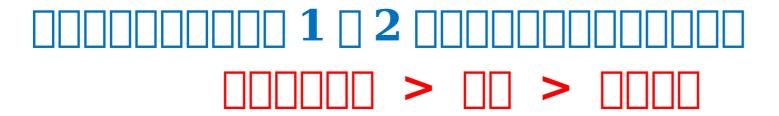


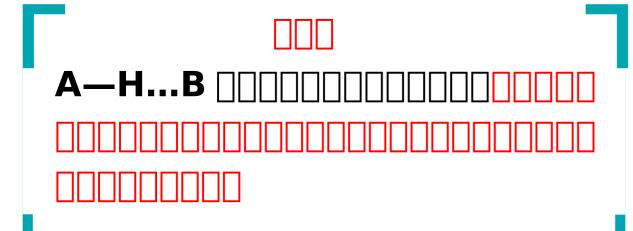
 $\textcircled{1} \square \square \square \square \square X \longrightarrow H \cdots Y$

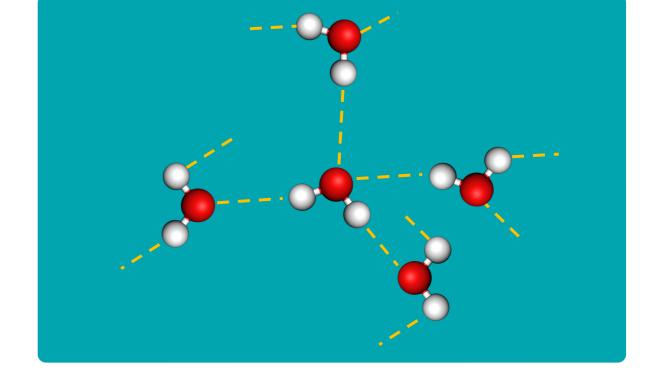
X | Y | N | O | F

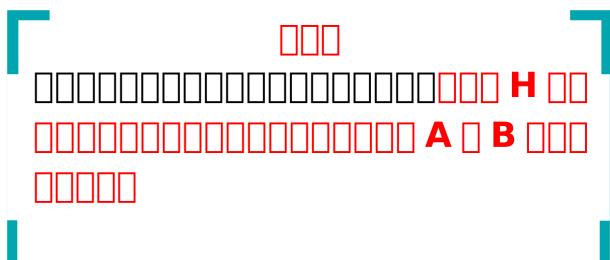
- lacksquare

[][][] (kJ·mol ⁻¹)	[][][] (kJ·mol⁻¹)	□□ (kJ·mol ⁻¹)
462.8	23.11	26.00

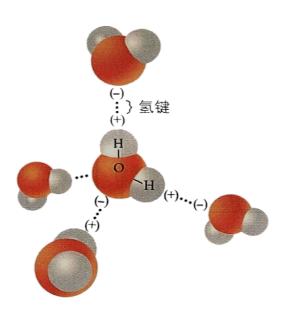


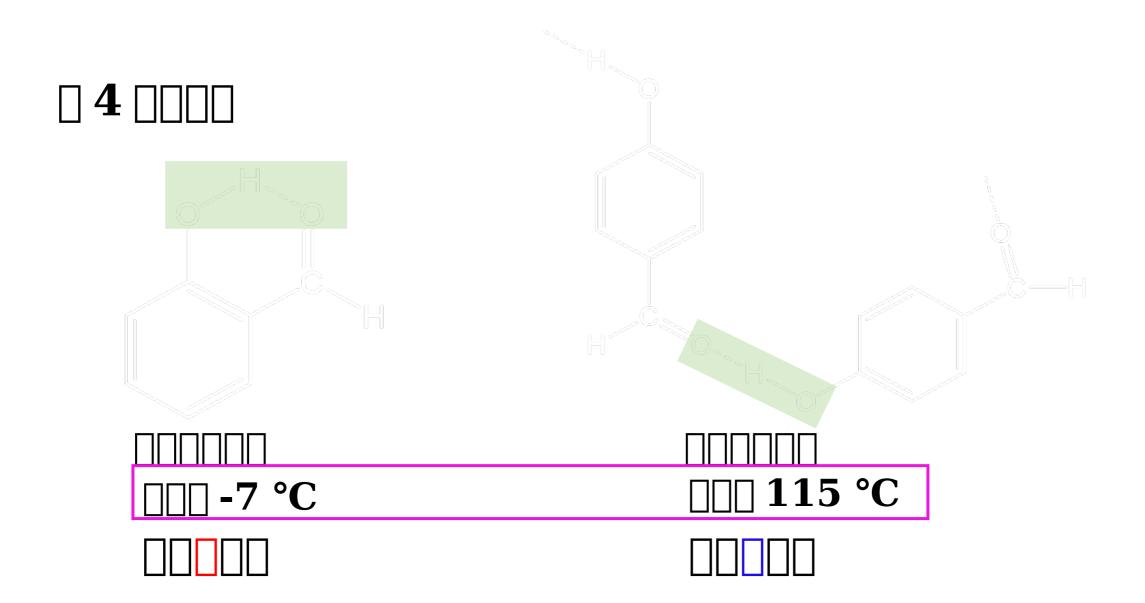








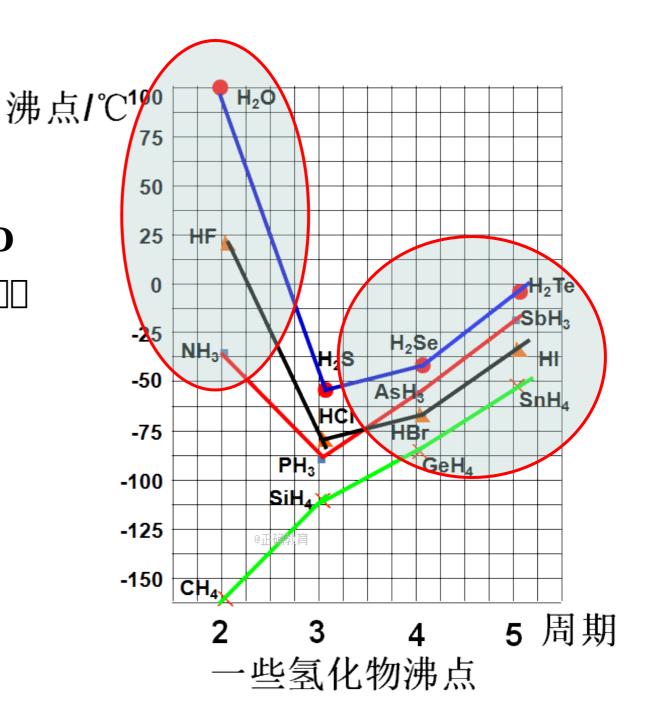




$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	

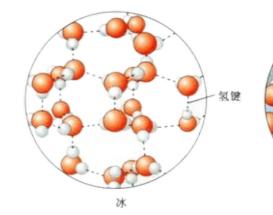
(5)

	/°C
32	65
30	-89
46	78
44	-42
60	97
58	-0.5

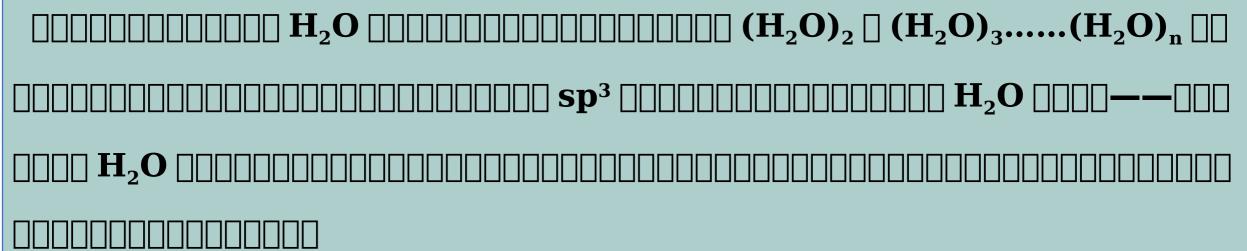




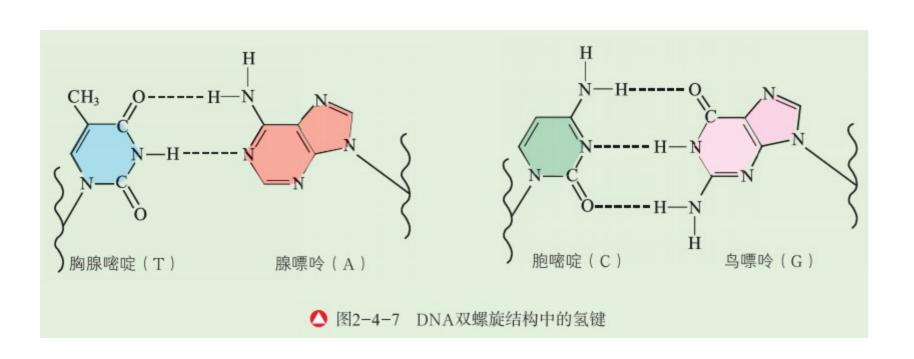
- **1** H₂O | | | | | | |
 - 2 000000
- 3 [4°C [[[[

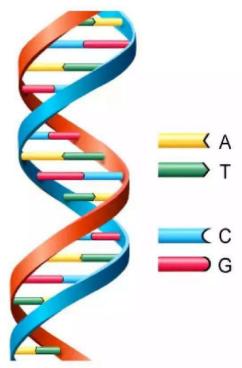






(4) 00000000







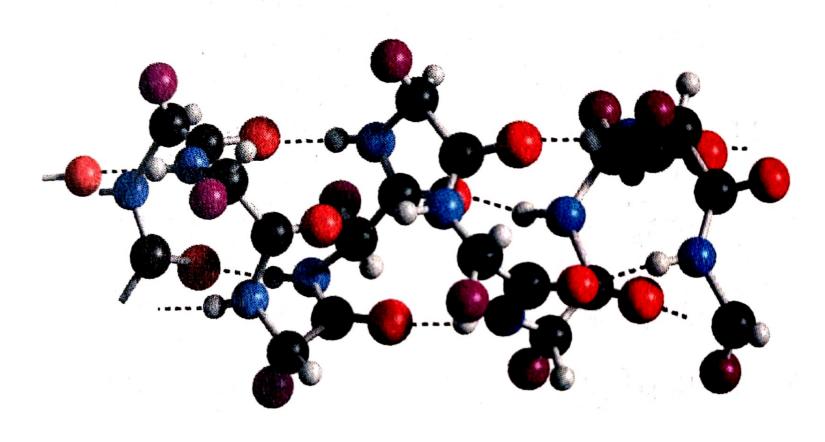
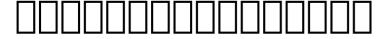


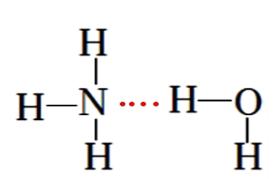
图 2-28 蛋白质分子中的氢键(虚线表示氢键)



(1) 00000000







物质	溶解性
CH ₃ CH ₃	难溶
CH ₃ CH ₂ OH	互溶
CH₃CHO	互溶
СН₃СООН	互溶

$$CH_3CH_2$$
— O \cdots H — O

$$H_3C$$

$$C = O \cdots H - O$$

$$H$$

$$H_{3}C$$

$$C = O \cdots H - O$$

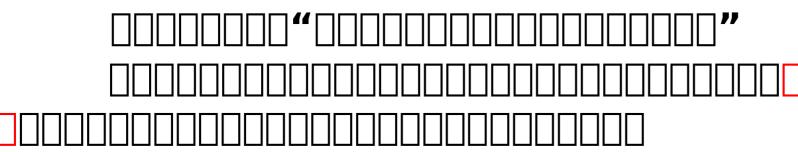
$$H$$

(2)" || || || || "

- $\square\square\square$ \mathbb{NH}_3 $\square\square\square$
 - 3 | | | | | | | |

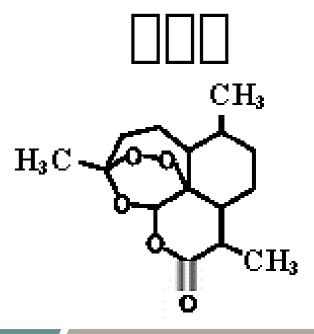
- $I_2 \square \square \square \square \square CCl_4$



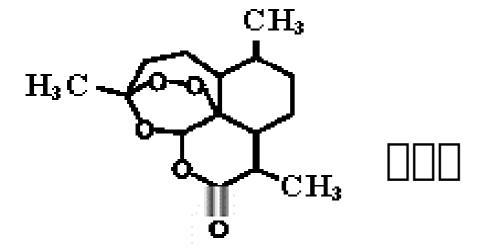




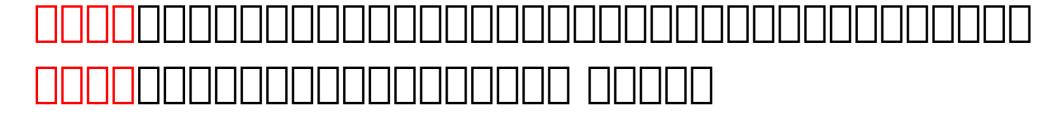




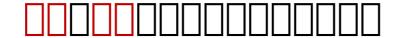
CH_3CH_2 —O— CH_2CH_3



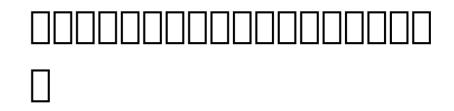




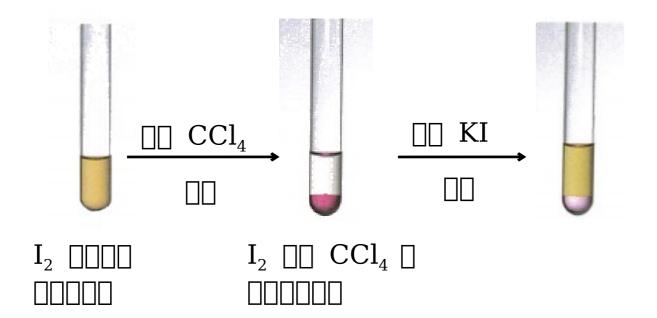


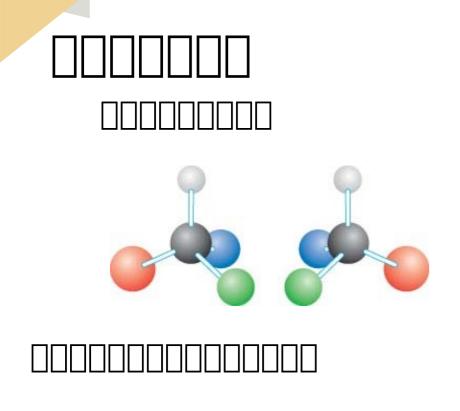


	□□□ /g	□□□ /g
	0.117	0.0149
	52.9	0.00016
	0.169	0.0023
	0.0028	0.0019
	0.729	0.0043
	0.0062	0.3946

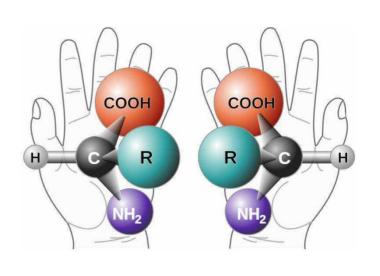




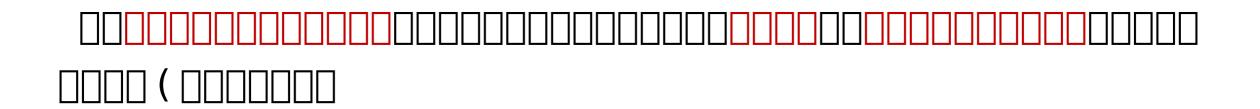


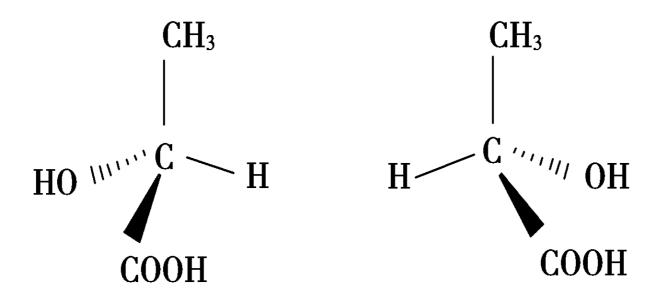






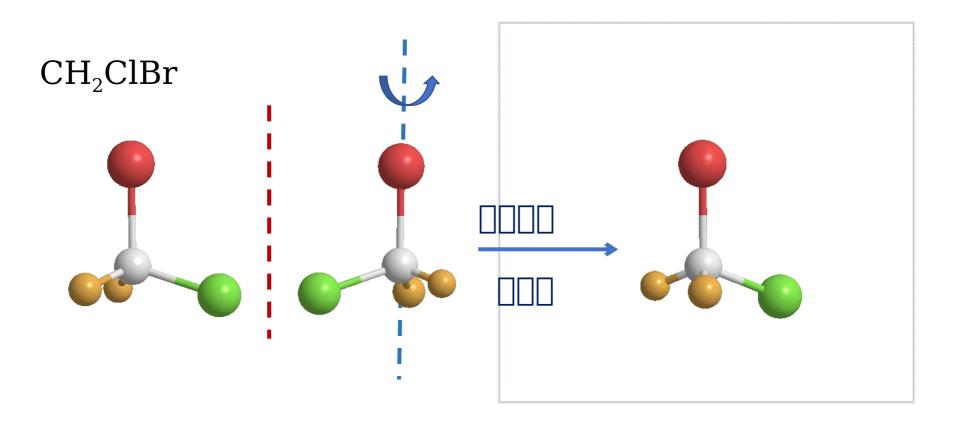
 $1 \square \square \square \square \square \square$

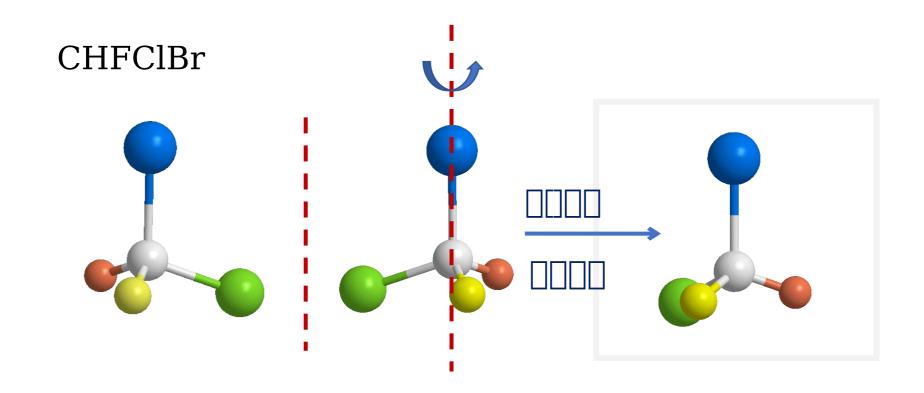




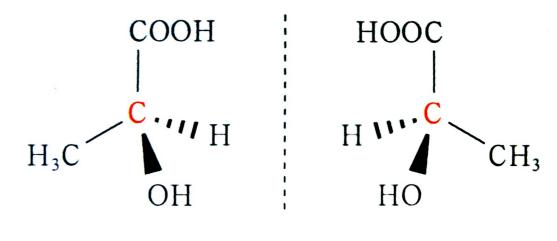
- (1)

 $oxed{\Pi}$





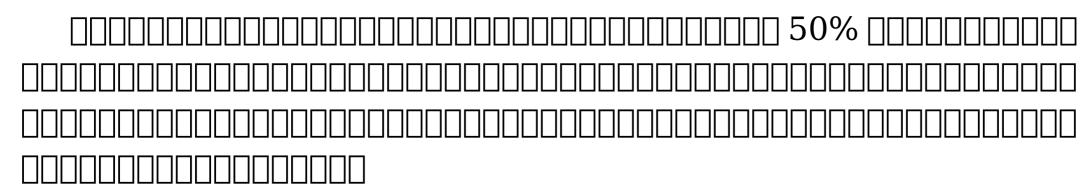




乳酸







(2)



 1		,
	H \square N \square O \square F	

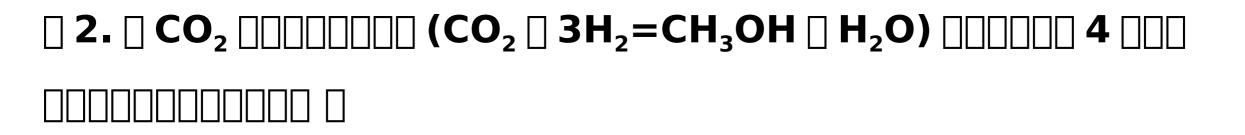
- **1.** 000000000 () **B**

- **4HCl** | HI | | |
- A.12345

B.1235

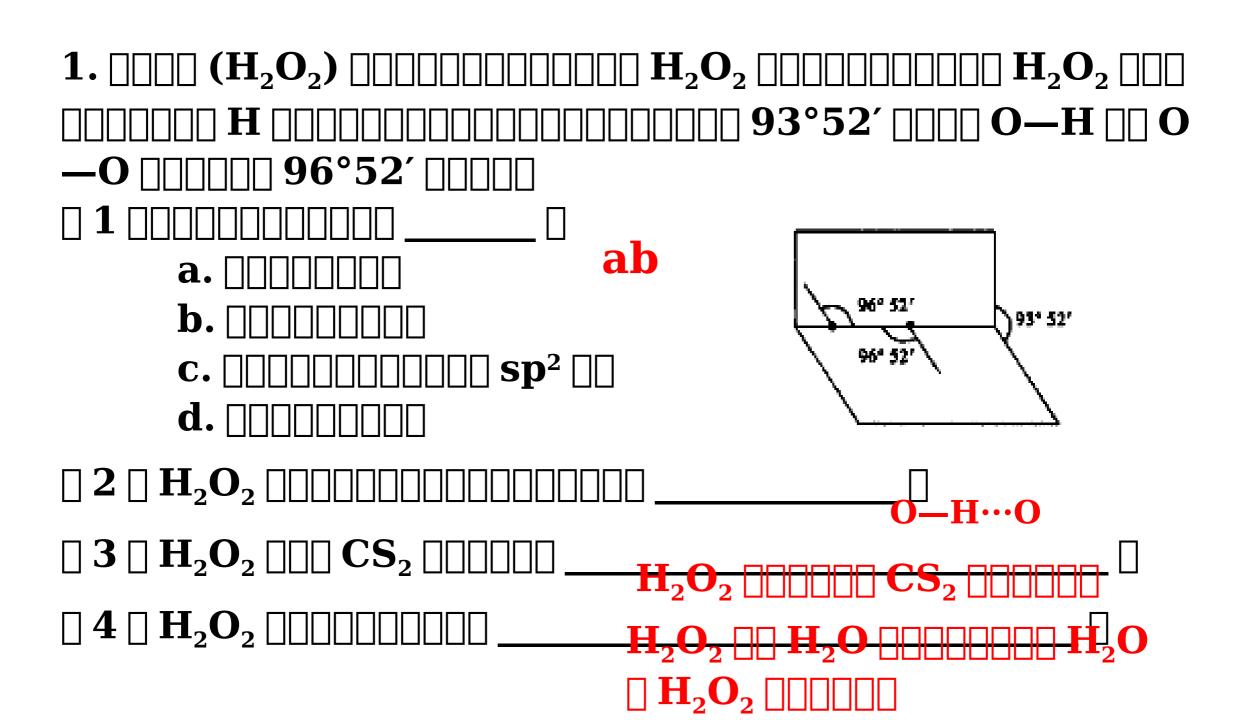
C.1234

D.1245



$$H_2O>CH_3OH>CO_2>H_2$$





(3) 0000000000000000 (H₂O)_m 000000

3. 0000000000

- 1235